

## ABSTRACT

The aim of the invention is to optimize cooling of a rotor using simple means. A rotor is provided, comprising rotor pressure rings (1) such that at least one of the two rotor pressure rings (1) is configured in order to enable targeted guiding of the coolant through the axial bores (3, 3') in the rotor. In a special embodiment, the rotor pressure ring (1) can be formed in such a manner that it produces, in several bores (3') in the rotor sheet stack (8), a flow of coolant in a first direction and in other bores (3), a flow of coolant in the other direction. An even, opposite flow cooling can be exclusively obtained by the contour of the rotor pressure ring (1).